

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/691,529A
Source: 1FW16
Date Processed by STIC: 6/14/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/10/691,529A

TIME: 10:19:48

Input Set : A:\WYE-010 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06142006\J691529A.raw

```

3 <110> APPLICANT: Wyeth
4     Liu, Wei
5     Wu, Leeyang
6     Ford, Roger
7     Be, Xiaobing
9 <120> TITLE OF INVENTION: COMPOSITIONS, ORGANISMS AND METHODOLOGIES EMPLOYING A NOVEL
HUMAN
10     PROTEIN PHOSPHATASE
12 <130> FILE REFERENCE: AM101076
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/691,529A
C--> 14 <141> CURRENT FILING DATE: 2003-10-24
14 <150> PRIOR APPLICATION NUMBER: 60/420,757
15 <151> PRIOR FILING DATE: 2002-10-24
17 <160> NUMBER OF SEQ ID NOS: 304
19 <170> SOFTWARE: PatentIn version 3.2
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1326
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <400> SEQUENCE: 1
27 atgccccctc ggcggcgccg ctcggcgccc gctcccggtt ccagcgcgcc tgcacgttac      60
29 cgttttaggcc tgtccgtgtt cgtgctgtgc ataggcacgc tggctctacc tggtaggcgg      120
31 ctacgcgaca ctcgggtctga tctagcgctc ggactagact ggctgacaaa ggtttcgttc      180
33 gaccctgcgt gtgatttgct gatttcgggt ggagaccttg ttgaccgcgg cgcggaagaa      240
35 gtcgagtgcc tggagctgat tactatgcct tggttccggg ctgtgcgagg taaccatgag      300
37 cagatgatga ttgatgggct atcggagtat ggaaacgcta accactggct ggaaacggc      360
39 ggcgtgtggg tcttcagttc tgattatgaa aaagaggtgc tggctaaggc tctggttcat      420
41 aaatcgccca gcctgccatt cgtcatcgag ctggttaccg ctgaacgtaa aatcgttatc      480
43 tgccacgctg actaccgcga taacgaatat gcgttcgaca agccgggtccc gaaagacatg      540
45 gtcactctga atcgtgaacg ggttagcgac gctcaggacg gcattgtctc gccgatagct      600
47 ggtgctgata tgtttatctt cggccacacc cctgcgcgac agccctgaa gtatgccaac      660
49 cagatgtaca tcgatactgg tgccgtgttc tgcgggaaac tcacgctgtg caaagtatgc      720
51 ggtgaatact tcgtgccgaa attccacgac atccggatcc ggtggtgcag cccggagcat      780
53 ggcgcaatcc tcgcaatgga agaacgcaag aaggacaacg tgaaagccgc ggctaagcgc      840
55 atcaaggagc aaaaagaggc tgaaaaggac gggcgcaaac gccgcaaggc ggcgctggca      900
57 gagctcaggc cagacggata ctacaaggct caggctcaga aagctttcaa cgctttatc      960
59 cgtgcgcgcg acgccgattt gccatgcata agctgcggcg agaccaatcc gcctgatctg      1020
61 catggtggcc agtgggattg cggccatttc aagacagtag gtgcttacc tgaactgcgc      1080
63 tttgaagaac gcaacgcccc taagcagtcg aaatcctgta atgccggagc tggcaagtac      1140
65 accgccaag aggcgaccgt ggcgcagcaa tacgaagctg ggttggtcgc tcgttacggt      1200
67 cagggatacg tcaactggct caatggtccc caggaatga ccaactaccg ccgtgaagac      1260
69 ttcacccgga tccgggatga gtaccgcgac aagctcaaag cactgaaaca gcgggaggca      1320
71 gcatga
74 <210> SEQ ID NO: 2

```

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/10/691,529A

TIME: 10:19:49

Input Set : A:\WYE-010 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06142006\J691529A.raw

75 <211> LENGTH: 441

76 <212> TYPE: PRT

77 <213> ORGANISM: Homo sapiens

79 <400> SEQUENCE: 2

```

81 Met Pro Pro Arg Ala Pro Ala Ser Ala Pro Ala Pro Gly Ser Ser Ala
82 1          5          10          15
85 Pro Ala Arg Tyr Arg Leu Gly Leu Ser Val Phe Val Arg Gly Ile Gly
86          20          25          30
89 Thr Leu Ala Leu Pro Gly Arg Arg Leu Arg Asp Thr Arg Ser Asp Leu
90          35          40          45
93 Ala Leu Gly Leu Asp Trp Leu Thr Lys Val Ser Phe Asp Pro Ala Cys
94          50          55          60
97 Asp Leu Leu Ile Ser Val Gly Asp Leu Val Asp Arg Gly Ala Glu Asn
98 65          70          75          80
101 Val Glu Cys Leu Glu Leu Ile Thr Met Pro Trp Phe Arg Ala Val Arg
102          85          90          95
105 Gly Asn His Glu Gln Met Met Ile Asp Gly Leu Ser Glu Tyr Gly Asn
106          100          105          110
109 Val Asn His Trp Leu Glu Asn Gly Gly Val Trp Phe Phe Ser Leu Asp
110          115          120          125
113 Tyr Glu Lys Glu Val Leu Ala Lys Ala Leu Val His Lys Ser Ala Ser
114          130          135          140
117 Leu Pro Phe Val Ile Glu Leu Val Thr Ala Glu Arg Lys Ile Val Ile
118 145          150          155          160
121 Cys His Ala Asp Tyr Pro His Asn Glu Tyr Ala Phe Asp Lys Pro Val
122          165          170          175
125 Pro Lys Asp Met Val Ile Trp Asn Arg Glu Arg Val Ser Asp Ala Gln
126          180          185          190
129 Asp Gly Ile Val Ser Pro Ile Ala Gly Ala Asp Leu Phe Ile Phe Gly
130          195          200          205
133 His Thr Pro Ala Arg Gln Pro Leu Lys Tyr Ala Asn Gln Met Tyr Ile
134          210          215          220
137 Asp Thr Gly Ala Val Phe Cys Gly Asn Leu Thr Leu Cys Lys Val Cys
138 225          230          235          240
141 Gly Glu Tyr Phe Val Pro Lys Phe His Asp Ile Arg Ile Arg Trp Cys
142          245          250          255
145 Ser Pro Glu His Gly Ala Ile Leu Ala Met Glu Glu Arg Lys Lys Asp
146          260          265          270
149 Asn Val Lys Ala Ala Ala Lys Arg Ile Lys Glu Gln Lys Glu Ala Glu
150          275          280          285
153 Lys Asp Gly Arg Lys Arg Arg Lys Glu Arg Leu Ala Glu Leu Arg Pro
154          290          295          300
157 Asp Gly Tyr Tyr Lys Ala Gln Ala Gln Lys Ala Phe Asn Ala Phe Ile
158 305          310          315          320
161 Arg Ala Arg Asp Ala Asp Leu Pro Cys Ile Ser Cys Gly Glu Thr Asn
162          325          330          335
165 Pro Pro Asp Leu His Gly Gly Gln Trp Asp Cys Gly His Phe Lys Thr
166          340          345          350
169 Val Gly Ala Tyr Pro Glu Leu Arg Phe Glu Glu Arg Asn Ala His Lys

```

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/10/691,529A

TIME: 10:19:49

Input Set : A:\WYE-010 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06142006\J691529A.raw

```

170          355          360          365
173 Gln Cys Lys Ser Cys Asn Ala Gly Ala Gly Lys Tyr Thr Ala Lys Glu
174          370          375          380
177 Ala Thr Val Ala Gln Gln Tyr Glu Ala Gly Leu Val Ala Arg Tyr Gly
178 385          390          395          400
181 Gln Gly Tyr Val Asn Trp Leu Asn Gly Pro His Glu Met Thr Asn Tyr
182          405          410          415
185 Arg Arg Glu Asp Phe Ile Arg Ile Arg Asp Glu Tyr Arg Asp Lys Leu
186          420          425          430
189 Lys Ala Leu Lys Gln Arg Glu Ala Ala
190          435          440
193 <210> SEQ ID NO: 3
194 <211> LENGTH: 2795
195 <212> TYPE: DNA
196 <213> ORGANISM: Homo sapiens
199 <220> FEATURE:
200 <221> NAME/KEY: misc_feature
201 <222> LOCATION: (1478)..(1577)
202 <223> OTHER INFORMATION: N = A, T, C or G
204 <400> SEQUENCE: 3
205 atgccccctc ggcggcgccc ctcggcgccc gctcccggtt ccagcgcgcc tgcacgtacg      60
207 tagccttcac gtgtgtgtgg atacggagtg catgtgtgga gacagaggaa tatgctccaa      120
209 caaatttcgg atagaggcgc cgaagacagg acgtggggaa ggtaggagcc gcgtgcacgg      180
211 ctccggcccc gggcgggagg cggcgcgag cggggcggc cgcgcgcaag tccggcgcca      240
213 gccgctagag ccccgagtgc ggcggcggc cgcgggcggc ctcgaccgca cacaataaac      300
215 tccgagggcg ggcgggcccga ggggcccgtg gggcgcatcg gtcgccccgc gcgcacgcgc      360
217 atgtgagcgg ttgcgcgggc ttctcgggga cccaactttc cggggcgggc gcgcccact      420
219 tccgcgcgcc cgctccggcc cgtaggccc gcggcgccag gggaagacgc gagtaagtgc      480
221 gggcgggcgt gccctccgg ccctcaccgc gcacgcggcg acctcggcc cctagctctc      540
223 ccttcgctca tggcgcgacc gctggcgtct ctctgcaggt ggagctctta caaatcatgg      600
225 tcgccccctc agaccgggat gccctttcgc tgcggagacc ggcgtgcggg gtgtccggag      660
227 cgggtgggga tgacggggat tggtagggta gagtaggctc tggccagtgg atgacgtgat      720
229 gtgattgctg gctttgtagt cgtctcactc tctttccctc ctctcgtctc cgttcttcac      780
231 tgcacaggtt taccgtttag gcctgtccgt gttcgtgcgt ggcataaggca cgtggtctct      840
233 acctggtagg cggctacgcg aactcgggtc tgatctagcg ctcgactag actggtggt      900
235 accggagtca cctgcattct atatttggtt gcgggcaata tgtctcgtaa ctcttctac      960
237 tgtctgtgtc gtttttctct tgtctcatt gcacctttt ctatgagctc tcttttctt      1020
239 ctactacat ggcttacatc ttaataccat gccagcctct acctcgctat actctctaac      1080
241 tctactatgt aatatacgaa tactgagcaa tatatcctac tgtccggact caagctccag      1140
243 cgcgactctc gtgataatcc ctccatacat gacaactaca ccgtactcca tctattaaca      1200
245 cctcgtctac cctcatttta gtttttgtca gtcacctctc cagtcaccta tcaccaactc      1260
247 atccacaccc ctccgctcct cttaccctgc cccgtcatac ctccacctct cccaccaaac      1320
249 tccccctctc acccgctcgc tccccctccc ccccaactca ctcttcgctc ctccgtctgt      1380
251 cccacccgtc acccctctcc attctcccta cttcacccta tacctcctgc attcctctcc      1440
W--> 253 ccctctatac tcactcacca cgatgctacg aactactnnn nnnnnnnnnn nnnnnnnnnn      1500
255 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      1560
257 nnnnnnnnnn nnnnnnnccg tggtagaac aaaggtttcg ttcgacctg cgtgtgattt      1620
259 gctgatttcg gttggagacc ttgttgacc cggcgcgga aacgtcgagt gcctggagct      1680
261 gattactatg ccttggttcc gggctgtgcg aggtaacat gagcagatga tgattgatgg      1740

```

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/10/691,529A

TIME: 10:19:49

Input Set : A:\WYE-010 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06142006\J691529A.raw

```

263 gctatcggag tatggaaacg ttaaccactg gctggaaaac ggcggcgtgt ggttcttcag 1800
265 tcttgattat gaaaaagagg tgctggctaa ggctctgggt cataaatcgg ccagcctgcc 1860
267 attcgtcatc gagctgggta ccgctgaacg taaaatcggt atctgccacg ctgactaccc 1920
269 gcataacgaa tatgcgttcg acaagccggg cccgaaagac atgggtcatct ggaatcgtga 1980
271 acggggttagc gacgctcagg acggcattgt ctgcgcgata gctggtgctg atctgtttat 2040
273 cttcggccac acccctgcgc gccagcccct gaagtatgcc aaccagatgt acatcgatac 2100
275 tgggtccgtg ttctgcggaa acctcacgct ggtacagggt caagggtggg cccatgcgta 2160
277 aaccatcccc ccgtaagtgc aaagtatgcg gtgaatactt cgtgccgaaa ttccacgaca 2220
279 tccggatccg gtgggtgcagc ccggagcatg gcgcaatcct cgcaatggaa gaacgcaaga 2280
281 aggacaacgt gaaagccgcg gctaagcgca tcaaggagca aaaagaggct gaaaaggacg 2340
283 ggcgcaaacg ccgcaaggag cggctggcag agctcaggcc agacggatac tacaaggctc 2400
285 aggctcagaa agctttcaac gcctttatcc gtgcgcgcga cgccgatttg ccatgcatca 2460
287 gctgcggcga gaccaatccg cctgatctgc atgggtggca gtgggattgc ggccatttca 2520
289 agacagtagg tgcttaccct gaactgcgct ttgaagaacg caacgcccac aagcagtgca 2580
291 aatcctgtaa tgccggagct ggcaagtaca ccgcaaaga ggcgaccgtg gcgcagcaat 2640
293 acgaagctgg gttggctcgt cgttacggtc agggatacgt caactggctc aatgggtccc 2700
295 acgaaatgac caactaccgc cgtgaagact tcatccggat cggggatgag taccgcgaca 2760
297 agtcaaagc actgaaacag cgggaggcag catga 2795
300 <210> SEQ ID NO: 4
301 <211> LENGTH: 21
302 <212> TYPE: DNA
303 <213> ORGANISM: Homo sapiens
305 <400> SEQUENCE: 4
306 aaccatgagc agatgatgat t 21
309 <210> SEQ ID NO: 5
310 <211> LENGTH: 21
311 <212> TYPE: RNA
312 <213> ORGANISM: Homo sapiens
314 <400> SEQUENCE: 5
315 ccaugagcag augaugauuu u 21
318 <210> SEQ ID NO: 6
319 <211> LENGTH: 21
320 <212> TYPE: RNA
321 <213> ORGANISM: Homo sapiens
323 <400> SEQUENCE: 6
324 uugguacucg ucuacuacua a 21
327 <210> SEQ ID NO: 7
328 <211> LENGTH: 21
329 <212> TYPE: DNA
330 <213> ORGANISM: Homo sapiens
332 <400> SEQUENCE: 7
333 aaacgttaac cactggctgg a 21
336 <210> SEQ ID NO: 8
337 <211> LENGTH: 21
338 <212> TYPE: RNA
339 <213> ORGANISM: Homo sapiens
341 <400> SEQUENCE: 8
342 acguuaacca cuggcuggau u 21
345 <210> SEQ ID NO: 9

```

RAW SEQUENCE LISTING

DATE: 06/14/2006

PATENT APPLICATION: US/10/691,529A

TIME: 10:19:49

Input Set : A:\WYE-010 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06142006\J691529A.raw

```

346 <211> LENGTH: 21
347 <212> TYPE: RNA
348 <213> ORGANISM: Homo sapiens
350 <400> SEQUENCE: 9
351 uuugcaauug gugaccgacc u 21
354 <210> SEQ ID NO: 10
355 <211> LENGTH: 21
356 <212> TYPE: DNA
357 <213> ORGANISM: Homo sapiens
359 <400> SEQUENCE: 10
360 aacgttaacc actggctgga a 21
363 <210> SEQ ID NO: 11
364 <211> LENGTH: 21
365 <212> TYPE: RNA
366 <213> ORGANISM: Homo sapiens
368 <400> SEQUENCE: 11
369 cguuaaccac uggcuggaau u 21
372 <210> SEQ ID NO: 12
373 <211> LENGTH: 21
374 <212> TYPE: RNA
375 <213> ORGANISM: Homo sapiens
377 <400> SEQUENCE: 12
378 uugcaauugg ugaccgaccu u 21
381 <210> SEQ ID NO: 13
382 <211> LENGTH: 21
383 <212> TYPE: DNA
384 <213> ORGANISM: Homo sapiens
386 <400> SEQUENCE: 13
387 aaggctctgg ttcataaatc g 21
390 <210> SEQ ID NO: 14
391 <211> LENGTH: 21
392 <212> TYPE: RNA
393 <213> ORGANISM: Homo sapiens
395 <400> SEQUENCE: 14
396 ggcucugguu cauaaaucgu u 21
399 <210> SEQ ID NO: 15
400 <211> LENGTH: 21
401 <212> TYPE: RNA
402 <213> ORGANISM: Homo sapiens
404 <400> SEQUENCE: 15
405 uuuccgagacc aaguauuuag c 21
408 <210> SEQ ID NO: 16
409 <211> LENGTH: 21
410 <212> TYPE: DNA
411 <213> ORGANISM: Homo sapiens
413 <400> SEQUENCE: 16
414 aaatcgttat ctgccacgct g 21
417 <210> SEQ ID NO: 17
418 <211> LENGTH: 21

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 06/14/2006
PATENT APPLICATION: US/10/691,529A TIME: 10:19:50

Input Set : A:\WYE-010 Sequence Listing.ST25.txt
Output Set : N:\CRF4\06142006\J691529A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1478,1479,1480,1481,1482,1483,1484,1485,1486,1487,1488,1489
Seq#:3; N Pos. 1490,1491,1492,1493,1494,1495,1496,1497,1498,1499,1500,1501
Seq#:3; N Pos. 1502,1503,1504,1505,1506,1507,1508,1509,1510,1511,1512,1513
Seq#:3; N Pos. 1514,1515,1516,1517,1518,1519,1520,1521,1522,1523,1524,1525
Seq#:3; N Pos. 1526,1527,1528,1529,1530,1531,1532,1533,1534,1535,1536,1537
Seq#:3; N Pos. 1538,1539,1540,1541,1542,1543,1544,1545,1546,1547,1548,1549
Seq#:3; N Pos. 1550,1551,1552,1553,1554,1555,1556,1557,1558,1559,1560,1561
Seq#:3; N Pos. 1562,1563,1564,1565,1566,1567,1568,1569,1570,1571,1572,1573
Seq#:3; N Pos. 1574,1575,1576,1577

VERIFICATION SUMMARY

DATE: 06/14/2006

PATENT APPLICATION: US/10/691,529A

TIME: 10:19:50

Input Set : A:\WYE-010 Sequence Listing.ST25.txt

Output Set: N:\CRF4\06142006\J691529A.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1440

M:341 Repeated in SeqNo=3